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OM protein - nucleic search, using frame_plus_p2n model

Run on: January 16, 2003, 16:51:22 ; Search time 150.086 seconds
(without alignments)
137.557 Million cell updates/sec

Title: US-09-856-070-23
Perfect score: 55
Sequence: 1 ELMLPIQDYEE 11

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
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-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
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-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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23: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA2001B.DAT:*
24: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.		Score	% Query Match	Length	DB	ID	Description
1		55	100.0	2595	22	AAH33385	Human colon cancer
2		55	100.0	2930	24	ABQ88181	Human osteoblast d
3		55	100.0	2930	24	ABK70285	Human lung cancer
4		55	100.0	3044	24	ABQ88180	Human osteoblast d
5		55	100.0	3044	24	ABK84552	Human cDNA differe
6		55	100.0	3044	24	ABN97223	Gene #3721 used to
7		55	100.0	3047	24	ABK09792	Human ovarian tumo
8		55	100.0	3072	24	ABQ88182	Human osteoblast d
9		55	100.0	3115	21	AAC98113	Human colon cancer
c	10	55	100.0	11445	22	AAK70537	Human immune/haema
11		40	72.7	1447	23	AAS93352	DNA encoding novel
c	12	39	70.9	205	22	ABA71189	Human foetal liver
c	13	39	70.9	205	22	AAK19487	Human brain expres
c	14	39	70.9	205	22	AAK45478	Human bone marrow
c	15	39	70.9	205	22	AA151423	Probe #20109 used
c	16	39	70.9	207	24	ABS19746	Human genome deriv
c	17	39	70.9	452	22	ABA58691	Human foetal liver
c	18	39	70.9	452	22	AAK06826	Human brain expres
c	19	39	70.9	452	22	AAK32544	Human bone marrow
c	20	39	70.9	452	22	AA138370	Probe #7056 used t
c	21	39	70.9	452	24	ABS07334	Human genome deriv
22		39	70.9	520	21	AAC18855	Human secreted pro
c	23	39	70.9	692	22	AAS43034	DNA encoding G pro
24		39	70.9	1867	22	AAH34246	Human colon cancer
25		39	70.9	1985	23	AAS83233	DNA encoding novel
26		39	70.9	2142	23	AAS83235	DNA encoding novel
27		39	70.9	2409	23	AAS83232	DNA encoding novel
28		39	70.9	4203	23	AAS84264	DNA encoding novel
c	29	38	69.1	1923	24	ABN67224	Streptococcus poly
c	30	37	67.3	2007	23	ABV24370	Human prostate exp
c	31	37	67.3	3003	23	ABL17510	Drosophila melanog
c	32	37	67.3	3891	23	ABL18342	Drosophila melanog
c	33	37	67.3	7770	23	ABL18332	Drosophila melanog
c	34	37	67.3	21371	22	AAL04330	Human reproductive
c	35	36	65.5	253	24	ABN76851	Human ORF1798 cDNA
36		36	65.5	782	24	ABK75494	Bacillus licheniio
37		36	65.5	1156	21	AAC49821	Arabidopsis thalia
38		36	65.5	1165	21	AAC42573	Arabidopsis thalia
39		36	65.5	7420	24	ABK62595	Rat sequence diffe
40		36	65.5	7787	24	ABL66696	Lung cancer relate
41		35	63.6	344980	21	AAH41224	Pyrococcus abyssi
42		35	63.6	471	21	AAA19823	Mycoplasma hyopneu
43		35	63.6	542	22	AAH43635	SSG #1. Homo sapi
c	44	35	63.6	700	22	AAH93224	Human inflammatory
45		35	63.6	700	22	AAH94225	Human inflammatory

ALIGNMENTS

RESULT 1
AAH33385
ID AAH33385 standard; cDNA; 2595 BP.
XX
AC AAH33385;
XX
DT 03-SEP-2001 (first entry)
XX
DE Human colon cancer antigen encoding cDNA SEQ ID NO:441.
XX
KW Human; colon cancer; colon cancer antigen; diagnosis; detection;
KW colorectal carcinoma; ss.
XX
OS Homo sapiens.
XX
PN WO200122920-A2.
XX
PD 05-APR-2001.

XX
PF 28-SEP-2000; 2000WO-US26924.
XX
PR 29-SEP-1999; 99US-0157137
PR 03-NOV-1999; 99US-0163280.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Barash SC, Birse CE, Rosen CA;
XX
DR WPI; 2001-235457/24.
DR P-PSDB; AAG73954.
XX
PT Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
PT useful for preventing, diagnosing and/or treating colorectal cancers -
XX
PS Claim 1; Page 2539-2540; 9803pp; English.
XX
CC AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
CC cancer-associated nucleic acid molecules (N) and proteins (P), where
CC the proteins are collectively known as colon cancer antigens. The colon
CC cancer antigens have cytostatic activity and can be used in gene
CC therapy and vaccine production. N and P may be used in the prevention,
CC diagnosis and treatment of diseases associated with inappropriate P
CC expression. For example, N and P may be used to treat disorders
CC associated with decreased expression by rectifying mutations or deletions
CC in a patient's genome that affect the activity of P by expressing
CC inactive proteins or to supplement the patients own production of P.
CC Additionally, N may be used to produce the colon cancer-associated Ps,
CC by inserting the nucleic acids into a host cell and culturing the cell
CC to express the proteins. N and P can be used in the prevention, diagnosis
CC and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
CC and AAB77789 represent sequences used in the exemplification of the
CC present invention.
CC N.B. Pages 666 to 682 and page 7053 of the sequence listing were
CC missing at time of publication, meaning no sequences are present for
CC SEQ ID NO:1027 to 1952, 7921 and 7922.
XX
SQ Sequence 2595 BP; 742 A; 562 C; 714 G; 567 T; 10 other;

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Best Local Similarity:	100.00%	Mismatches:	0
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DB:	22	Gaps:	0

US-09-856-070-23 (1-11) x AAH33385 (1-2595)

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Db     664 GAGTTGATGCTGCGGCTGCAGGACTATGAGGAG 696
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RESULT 2
ABQ88181
ID ABQ88181 standard; cDNA; 2930 BP.
XX
AC ABQ88181;
XX
DT 18-SEP-2002 (first entry)
XX
DE Human osteoblast differentiation related cDNA SEQ ID NO 88.
XX
KW Human; osteoblast; stem cell differentiation; bone tissue deposition;
KW osteoporosis; osteopathic; ss.
XX
OS Homo sapiens.
XX
PN WO200250491-A2
XX
PD 27-JUN-2002
XX
PF 18-DEC-2001; 2001WO-US48276.
XX
PR 18-DEC-2000; 2000US-255882P.
PR 24-APR-2001; 2001US-285691P.
XX
PA (GENE-) GENE LOGIC INC.
PA (PROC) PROCTER & GAMBLE CO.
XX
PI Ji D, Axelrod DW, Cook JS, Jaiswal N, Einstein R, Houghton A;
PI Mertz L;
XX
DR WPI; 2002-557663/59.
XX
PT Use of genes and their expression profiles associated with osteoblast
PT differentiation for screening modulators bone formation, for diagnosing
PT or treating e.g. osteoporosis, or as markers for the differentiation
PT process -
XX
PS Claim 1; SEQ ID NO 88; 78pp + Sequence Listing; English.
XX
CC The invention relates to genes and their expression profiles are used
CC for:
CC (a) screening modulators of precursor stem cell differentiation into
CC osteoblasts, or bone tissue deposition;
CC (b) diagnosing abnormal deposition of bone tissue, abnormal rate of
CC osteoblast formation or osteoporosis; or
CC (c) treating or monitoring treatment of the conditions cited in (b), or
CC monitoring the progression of bone tissue deposition.
CC Specific conditions include postmenopausal osteoporosis, glucocorticoid
CC osteoporosis or male osteoporosis, osteopenia, osteodystrophy,
CC drug-induced abnormalities in bone formation or bone loss, conditions
CC that involve altered bone metabolism (e.g. idiopathic juvenile
CC osteoporosis), skeletal disease linked to breast cancer, mastocytosis,
CC Fanconi syndrome or fibrous dysplasia. The present sequence is that of an
CC osteoblast differentiation associated cDNA marker of the invention.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 2930 BP; 793 A; 658 C; 821 G; 658 T; 0 other;

Alignment Scores:

Pred. No.:	0.169	Length:	2930
Score:	55.00	Matches:	11
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	24	Gaps:	0

US-09-856-070-23 (1-11) x ABQ88181 (1-2930)

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Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
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Db    1112 GAGTTGATGCTGCGGCTGCAGGACTATGAGGAG 1144
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RESULT 3
ABK70285
ID ABK70285 standard; cDNA; 2930 BP.
XX
AC ABK70285;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human lung cancer associated full length cDNA DMSM-51.
XX
KW Human; ss; gene; lung cancer; cytostatic; tumour; vaccine.
XX
OS Homo sapiens.
XX
PN WO200224057-A2.
XX
PD 28-MAR-2002.
XX

PF 20-SEP-2001; 2001WO-US42232.
XX
PR 22-SEP-2000; 2000US-234837P.
PR 10-OCT-2000; 2000US-239440P.
PR 29-JUN-2001; 2001US-301920P.
XX
PA (CORI-) CORIXA CORP.
XX
PI Benson DR, Mohamath R, Lodes MJ;
XX
DR WPI; 2002-372001/40
XX
PT New tumour lung proteins and nucleic acids encoding the proteins, useful
PT as vaccines and for treating, preventing, diagnosing or monitoring lung
PT cancer -
XX
PS Claim 1; Page 159-160; 189pp; English.
XX
CC The invention relates to an isolated polynucleotide comprising a sequence
CC selected from 183 human DNA sequences (appearing as ABK70130-ABK70312),
CC or their fragments, homologues, variants or complements and their encoded
CC polypeptides. Also included are an expression vector comprising the
CC polynucleotide operably linked to an expression control sequence; a host
CC cell transformed or transfected with an expression vector of; an isolated
CC antibody, or its antigen-binding fragment that specifically binds to the
CC polypeptide, a method for detecting the presence of a cancer in a
CC patient; a fusion protein comprising at least the polypeptide; an
CC oligonucleotide that hybridises to the polynucleotide under moderately
CC stringent conditions, a method for stimulating and/or expanding T cells
CC specific for a tumour protein; an isolated T cell population comprising T
CC cells prepared from the method of above, a composition comprising a first
CC component consisting of carriers and immunostimulants, and a second
CC component selected from the polynucleotides, proteins, antibodies, fusion
CC proteins, T cell populations and antigen presenting cells expressing the
CC polypeptide, methods for stimulating an immune response or treating
CC cancer in a patient by administering the composition and diagnostic kits
CC comprising at least one of the oligonucleotide of, or an antibody and a
CC detection reagent consisting of a reporter group. The polypeptides and
CC polynucleotides are useful as vaccines for the treatment or prevention of
CC lung cancer, and for diagnosis and monitoring of such cancer. The
CC polynucleotide, polypeptide and antigen presenting cells can be
CC used to stimulate or expand T cells specific for a tumorous protein.
CC The polynucleotides may be used as probes or primers for nucleic acid
CC hybridisation, and in the preparation of ribozyme molecules for
CC inhibiting expression of tumour polypeptides and proteins in tumour
CC cells. The present sequence is one of the 183 lung cancer associated
CC polynucleotides.
XX
SQ Sequence 2930 BP; 793 A; 658 C; 821 G; 658 T; 0 other;

Alignment Scores:

Pred. No.:	0.169	Length:	2930
Score:	55.00	Matches:	11
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	24	Gaps:	0

US-09-856-070-23 (1-11) x ABK70285 (1-2930)

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Db    1112 GAGTTGATGCTGCGGCTGCAGGACTATGAGGAG 1144
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RESULT 4
ABQ88180
ID ABQ88180 standard; cDNA; 3044 BP.
XX
AC ABQ88180;
XX
DT 18-SEP-2002 (first entry)
XX
DE Human osteoblast differentiation related cDNA SEQ ID NO 87.
XX
KW Human; osteoblast, stem cell differentiation; bone tissue deposition;
KW osteoporosis, osteopathic; ss.
XX
OS Homo sapiens.
XX
PN WO200250301-A2.
XX
PD 27-JUN-2002.
XX
PF 18-DEC-2001; 2001WO-US48276.
XX
PR 18-DEC-2000; 2000US-255882P.
PR 24-APR-2001; 2001US-285691P.
XX
PA (GENE-) GENE LOGIC INC.
PA (PROC) PROCTER & GAMBLE CO.
XX
PI Ji D, Axelrod DW, Cook JS, Jaiswal N, Einstein R, Houghton A;
PI Mertz L;
XX
DR WPI; 2002-557563/59.
XX
PT Use of genes and their expression profiles associated with osteoblast
PT differentiation for screening modulators bone formation, for diagnosing
PT or treating e.g. osteoporosis, or as markers for the differentiation
PT process -
XX
PS Claim 1; SEQ ID NO 87; 78pp + Sequence Listing; English.
XX
CC The invention relates to genes and their expression profiles are used
CC for:
CC (a) screening modulators of precursor stem cell differentiation into
CC osteoblasts, or bone tissue deposition;
CC (b) diagnosing abnormal deposition of bone tissue, abnormal rate of
CC osteoblast formation or osteoporosis; or
CC (c) treating or monitoring treatment of the conditions cited in (b), or
CC monitoring the progression of bone tissue deposition.
CC Specific conditions include postmenopausal osteoporosis, glucocorticoid
CC osteoporosis or male osteoporosis, osteopenia, osteodystrophy,
CC drug-induced abnormalities in bone formation or bone loss, conditions
CC that involve altered bone metabolism (e.g. idiopathic juvenile
CC osteoporosis), skeletal disease linked to breast cancer, mastocytosis,
CC Paget's syndrome or fibrous dysplasia. The present sequence is that of an
CC osteoblast differentiation associated cDNA marker of the invention.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 3044 BP; 826 A; 687 C; 855 G; 675 T; 1 other;

Alignment Scores:

Pred. No.:	0.176	Length:	3044
Score:	55.00	Matches:	11
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	24	Gaps:	0

US-09-856-070-23 (1-11) x ABQ88180 (1-3044)

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Db    1153 GAGTTGATGCTGCGGCTGCAGGACTATGAGGAG 1185
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RESULT 5
ABK84552
ID ABK84552 standard; cDNA; 3044 BP.
XX
AC ABK84552;
XX
DT 14 AUG 2002 (first entry)
XX

```
DE   Human cDNA differentially expressed in granulocytic cells #1123.
XX
KW   Human; ss; granulocytic cell; DNA chip, bacterial infection;
KW   viral infection; parasitic infection; protozoal infection;
KW   fungal infection; sterile inflammatory disease, psoriasis,
KW   rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
KW   cardiac reperfusion injury; renal reperfusion injury; ARDS;
KW   adult respiratory distress syndrome; inflammatory bowel disease;
KW   Crohn's disease, ulcerative colitis, periodontal disease,
KW   granulocyte activation; chronic inflammation; allergy.
XX
OS   Homo sapiens.
XX
PN   WO200228999-A2.
XX
PD   11-APR-2002.
XX
PF   03-OCT-2001; 2001WO-US30821.
XX
PR   03-OCT-2000; 2000US-237189P.
XX
PA   (GENE-) GENE LOGIC INC.
XX
PI   Beazer-Barclay Y,  Weissman SM,  Yamaga S,  Vockley J;
XX
DR   WPI; 2002-435328/46.
XX
PT   Detecting granulocyte activation by detecting differential expression
PT   of genes associated with granulocyte activation, which serves as
PT   diagnostic markers that is useful for monitoring disease states and
PT   drug toxicity -
XX
PS   Claim 1; SEQ ID NO 1123; 114pp; English.
XX
CC   The invention relates to detecting (M1) granulocyte (GC) activation
CC   (GCA), by detecting the level of expression of gene(s) (Gs) identified by
CC   DNA chip analysis as given in the specification, and comparing
CC   the expression level to an expression level in an unactivated
CC   GC, where differential expression of Gs is indicative of GCA.
CC   Also included are modulating (M2) GA by contacting GC with an agent
CC   that alters the expression of at least one gene in Gs; (2) screening (M3)
CC   for an agent capable of modulating GCA or an inflammation (especially
CC   chronic) in a tissue, an allergic response in a subject, exposure of a
CC   subject to a pathogen or sterile inflammatory disease using the
CC   gene expression profile; (3) detecting (M4) an inflammation (especially
CC   chronic) in a tissue, an allergic response in a subject, exposure of a
CC   subject to a pathogen or sterile inflammatory disease, by detecting the
CC   level of expression in a sample of the tissue of gene(s) from Gs, where
CC   the level of expression of the gene is indicative of inflammation;
CC   (4) treating (M5) an inflammation (especially chronic) or in a tissue,
CC   an allergic response in a subject, exposure of a subject to a pathogen
CC   or sterile inflammatory disease, by contacting a tissue having
CC   inflammation with an agent that modulates the expression of gene(s)
CC   from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for
CC   modulating GA; M3 is useful for screening an agent capable of modulating
CC   GCA preferably in an inflammation in a tissue; M4 is useful for
CC   detecting an inflammation (especially chronic) in a tissue, an allergic
CC   response in a subject, exposure of a subject to a pathogen or sterile
CC   inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
CC   glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
CC   reperfusion injury, ARDS, adult respiratory distress syndrome,
CC   inflammatory bowel disease, Crohn's disease, ulcerative colitis,
CC   periodontal disease; also bacterial infection, viral infection,
CC   parasitic infection, protozoal infection, fungal infection and M5 is
CC   useful for treating one of the above conditions. The present
CC   sequence represents a gene differentially expressed in granulocytes.
CC   Note: The sequence data for this patent did not form part
CC   of the printed specification, but was obtained in electronic
CC   format directly from WIPO at
CC   ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence 3044 BP; 826 A; 687 C; 855 G; 675 T; 1 other;

Alignment Scores:
Pred. No.:                0.176          Length:          3044
Score:                    55.00          Matches:         11
Percent Similarity:       100.00%        Conservative:    0
Best Local Similarity:    100.00%        Mismatches:      0
Query Match:              100.00%        Indels:          0
DB:                       24             Gaps:            0

US-09-856-070-23 (1-11) x ABK84552 (1-3044)

Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
           ||||||||||||||||||||||||||||||||||
Db    1153 GAGTTGATGCTGCGGCTGCAGGACTATGAGGAG 1185

RESULT 6
ABN97223
ID   ABN97223 standard; DNA; 3044 BP.
XX
AC   ABN97223;
XX
DT   13-AUG-2002  (first entry)
XX
DE   Gene #3721 used to diagnose liver cancer.
XX
KW   Gene; liver cancer; ds; hepatocellular carcinoma; hepatotropic;
KW   metastatic liver tumour; cytostatic; expression profile; disease state;
KW   disease progression; drug toxicity; drug efficacy; drug metabolism.
XX
OS   Homo sapiens.
XX
PN   WO200229103-A2.
XX
PD   11-APR-2002.
XX
PF   02 OCT 2001; 2001WO-US30589.
XX
PR   02-OCT-2000; 2000US-237054P.
XX
PA   (GENE-) GENE LOGIC INC.
XX
PI   Horne D,  Alvares C,  Peres-Da-Silva S,  Vockley JG;
XX
DR   WPI; 2002-426119/45.
XX
PT   Diagnosing and detecting the progression of liver cancer,
PT   hepatocellular carcinoma or metastatic liver tumor in a patient,
PT   involves detecting the level of expression of two or more genes in a
PT   liver tissue sample -
XX
PS   Claim 1; SEQ ID NO 3721; 298pp; English.
XX
CC   The invention relates to a novel method for diagnosing and detecting the
CC   progression of liver cancer, hepatocellular carcinoma or metastatic liver
CC   tumour in a patient, and differentiating metastatic liver cancer from
CC   hepatocellular carcinoma in a patient, involving detecting the level of
CC   expression of two or more genes represented in ABN93503-ABN97455 in a
CC   tissue sample. The method of the invention has hepatotropic, and
CC   cytostatic activity. The method is useful for diagnosing and detecting
CC   the progression of liver cancer, hepatocellular carcinoma and metastatic
CC   liver carcinoma in a patient. The method is useful for identifying
CC   expression profiles which serve as useful diagnostic markers as well as
CC   markers that can be used to monitor disease states, disease progression,
CC   drug toxicity, drug efficacy and drug metabolism.
CC   Note: The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence 3044 BP; 826 A; 687 C; 855 G; 675 T; 1 other;

Alignment Scores:
Pred. No.:                0.176          Length:          3044
Score:                    55.00          Matches:         11
Percent Similarity:       100.00%        Conservative:    0
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Best Local Similarity:  100.00%        Mismatches:    0
Query Match:            100.00%        Indels:        0
DB:                     24             Gaps:          0

US-09-856-070-23 (1-11) x ABN97223 (1-3044)

Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
           ||||||||||||||||||||||||||||||||||
Db    1153 GAGTTGATGCTGCGGCTGCAGGACTATGAGGAG 1185

RESULT 7
ABK09792
ID   ABK09792 standard; cDNA; 3047 BP.
XX
AC   ABK09792;
XX
DT   14-MAR-2002  (first entry)
XX
DE   Human ovarian tumour protein encoding cDNA #325.
XX
KW   Human, ovarian tumour protein, cancer, cytostatic, immunostimulant, ss,
KW   gene therapy, CD4+ T cell, CD8+ T cell, PCR primer.
XX
OS   Homo sapiens.
XX
PN   WO200190154-A2
XX
PD   29-NOV-2001.
XX
PF   23-MAY-2001; 2001WO-US16895
XX
PR   24-MAY-2000; 2000US-207107P
PR   13-JUN-2000; 2000US-211457P
PR   21-JUN-2000; 2000US-213673P.
PR   03-AUG-2000; 2000US-223288P.
PR   01-MAR-2001; 2001US-272790P.
XX
PA   (CORI-) CORIXA CORP.
XX
PI   Xu J,  Mitcham JL,  Harlocker SL,  Dillon DC,  Secrist H,  Lodes MJ;
PI   Algate PA,  Kiling SR,  Mannion J,  Benson DR,  Carter D;
XX
DR   WPI; 2002-097641/13.
XX
PT   New isolated polynucleotide encoding polypeptide comprising portion of
PT   ovarian tumour protein, useful for detection, diagnosis and therapy of
PT   human ovarian cancer -
XX
PS   Claim 1; Page 269-270; 285pp; English.
XX
CC   The invention relates to an isolated polynucleotide encoding a
CC   polypeptide comprising a portion of an ovarian tumour protein. The
CC   sequences of the invention are useful for stimulating an immune response
CC   and for treating ovarian cancer in a patient. An antigen presenting cell
CC   that expresses the sequences is useful for treating ovarian cancer by
CC   incubating CD4+ and/or CD8+ T cells isolated from a patient. The T cells
CC   can then be proliferated and administered to the patient to inhibit the
CC   development of cancer. The DNA sequences are useful as probes or primers
CC   for nucleic acid hybridisation, to direct expression of a polypeptide in
CC   appropriate host cells. Detecting the presence of a cancer in a patient
CC   involves obtaining a biological sample from the patient, contacting the
CC   biological sample with an agent that binds to the protein, detecting the
CC   amount of protein that binds to the agent, comparing the amount of
CC   protein to a predetermined cut-off value and determining the presence of
CC   cancer. Sequences ABK09464-ABK09802 represent PCR primers and cDNA
CC   molecules encoding ovarian tumour proteins of the invention
XX
SQ   Sequence 3047 BP; 828 A; 687 C; 856 G; 675 T; 1 other;

Alignment Scores:
Pred. No.:              0.176          Length:        3047
Score:                  55.00          Matches:       11
Percent Similarity:     100.00%        Conservative:  0

Best Local Similarity:  100.00%        Mismatches:    0
Query Match:            100.00%        Indels:        0
DB:                     24             Gaps:          0

US-09-856-070-23 (1-11) x ABK09792 (1-3047)

Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
           ||||||||||||||||||||||||||||||||||
Db    1153 GAGTTGATGCTGCGGCTGCAGGACTATGAGGAG 1185

RESULT 8
ABQ88182
ID   ABQ88182 standard; cDNA; 3072 BP.
XX
AC   ABQ88182;
XX
DT   18-SEP-2002  (first entry)
XX
DE   Human osteoblast differentiation related cDNA SEQ ID NO 89.
XX
KW   Human, osteoblast, stem cell differentiation; bone tissue deposition;
KW   osteoporosis, osteopathic; ss.
XX
OS   Homo sapiens.
XX
PN   WO200250301-A2.
XX
PD   27-JUN-2002.
XX
PF   18-DEC-2001, 2001WO-US48276.
XX
PR   18-DEC-2000, 2000US-255882P.
PR   24-APR-2001, 2001US-285691P.
XX
PA   (GENE-) GENE LOGIC INC.
PA   (PROC ) PROCTER & GAMBLE CO.
XX
PI   Ji D,  Axelrod DW,  Cook JS,  Jaiswal N,  Einstein R,  Houghton A;
PI   Mertz L;
XX
DR   WPI; 2002-557b63/59.
XX
PT   Use of genes and their expression profiles associated with osteoblast
PT   differentiation for screening modulators bone formation, for diagnosing
PT   or treating e.g. osteoporosis, or as markers for the differentiation
PT   process -
XX
PS   Claim 1; SEQ ID NO 89; 78pp + Sequence Listing; English.
XX
CC   The invention relates to genes and their expression profiles are used
CC   for:
CC   (a) screening modulators of precursor stem cell differentiation into
CC   osteoblasts, or bone tissue deposition;
CC   (b) diagnosing abnormal deposition of bone tissue, abnormal rate of
CC   osteoblast formation or osteoporosis; or
CC   (c) treating or monitoring treatment of the conditions cited in (b), or
CC   monitoring the progression of bone tissue deposition.
CC   Specific conditions include postmenopausal osteoporosis, glucocorticoid
CC   osteoporosis or male osteoporosis, osteopenia, osteodystrophy,
CC   drug-induced abnormalities in bone formation or bone loss, conditions
CC   that involve altered bone metabolism (e.g. idiopathic juvenile
CC   osteoporosis), skeletal disease linked to breast cancer, mastocytosis,
CC   Fanconi syndrome or fibrous dysplasia. The present sequence is that of an
CC   osteoblast differentiation associated cDNA marker of the invention.
CC   Note: The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence 3072 BP; 846 A; 688 C; 868 G; 670 T; 0 other;

Alignment Scores:
Pred. No.:              0.178          Length:        3072
Score:                  55.00          Matches:       11
```

```
Percent Similarity:     100.00%         Conservative:   0
Best Local Similarity:  100.00%         Mismatches:     0
Query Match:            100.00%         Indels:         0
DB:                     24              Gaps:           0

US-09-856-070-23 (1-11) x ABQ88182 (1-3072)

Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
           ||||||||||||||||||||||||||||||||||
Db    1169 GAGTTGATGCTGCGGCTGCAGGACTATGAGGAG 1201

RESULT 9
AAC98113
ID   AAC98113 standard; cDNA; 4115 BP.
XX
AC   AAC98113;
XX
DT   09-MAR-2001  (first entry)
XX
DE   Human colon cancer antigen nucleotide sequence SEQ ID NO:123.
XX
KW   Human; colon cancer; colon cancer antigen; diagnosis; detection;
KW   identification; cytostatic; cardioactive; neuroprotective; vulnerary;
KW   immunomodulatory; muscular; gynaecological; gastrointestinal.
KW   nephrotropic; antiinfective; antibacterial; gene therapy; wound;
KW   neural disorder; immune system disorder; muscular disorder;
KW   reproductive disorder; gastrointestinal disorder; renal disorder;
KW   infectious disease; cardiovascular disorder; ss.
XX
OS   Homo sapiens.
XX
PN   WO200055351-A1.
XX
PD   21-SEP-2000.
XX
PF   08-MAR-2000; 2000WO-US05883.
XX
PR   12-MAR-1999;   99US-0124270.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Rosen CA,  Ruben SM;
XX
DR   WPI; 2000-587534/55.
DR   P-PSDB; AAB53356.
XX
PT   Colon cancer associated gene sequences, referred to as colon cancer
PT   antigens, useful for the treatment, prevention and diagnosis of colon
PT   disorders such as colon cancer -
XX
PS   Claim 1; Page 559-560; 2104pp; English.
XX
CC   AAC97991 to AAC98763 encode the human colon cancer associated proteins,
CC   called human colon cancer antigens, given in AAB53234 to AAB54006. The
CC   human colon cancer antigens can have cytostatic, cardioactive, muscular;
CC   neuroprotective, immunomodulatory, gynaecological, gastrointestinal,
CC   vulnerary, nephrotropic, antiinfective and antibacterial activities, and
CC   can be used in gene therapy. The colon cancer antigen polynucleotides,
CC   proteins and antibodies to the proteins are useful for the prevention,
CC   treatment and diagnosis of colon disorders, such as colon cancer. The
CC   polynucleotides may be used in diagnostics and research, such as for
CC   chromosome identification and as hybridisation probes. The proteins
CC   may also be used to prevent diseases such as neural disorders, immune
CC   system disorders, muscular disorders, reproductive disorders,
CC   gastrointestinal disorders, wounds, renal disorders, infectious
CC   diseases, and cardiovascular disorders. AAC98764 to AAC98772 and
CC   AAB54007 represent sequences used in the exemplification of the present
CC   invention.
XX
SQ   Sequence 4115 BP; 873 A; 696 C; 872 G; 670 T; 4 other;

Alignment Scores:
Pred. No.:              0.181           Length:         3115
```

```
Score:                  55.00           Matches:        11
Percent Similarity:     100.00%         Conservative:   0
Best Local Similarity:  100.00%         Mismatches:     0
Query Match:            100.00%         Indels:         0
DB:                     21              Gaps:           0

US-09-856-070-23 (1-11) x AAC98113 (1-3115)

Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
           ||||||||||||||||||||||||||||||||||
Db    1185 GAGTTGATGCTGCGGCTGCAGGACTATGAGGAG 1217

RESULT 10
AAK70537/c
ID   AAK70537 standard; DNA; 11445 BP.
XX
AC   AAK70537;
XX
DT   06-NOV-2001  (first entry)
XX
DE   Human immune/haematopoietic antigen genomic sequence SEQ ID NO:25349.
XX
KW   Human; immune, haematopoietic, immune/haematopoietic antigen; cancer;
KW   cytostatic; gene therapy; vaccine; metastasis; ds.
XX
OS   Homo sapiens.
XX
PN   WO200157182-A2.
XX
PD   09-AUG-2001.
XX
PF   17-JAN-2001; 2001WO-US01354.
XX
PR   31-JAN-2000; 2000US-0179065.
PR   04-FEB-2000; 2000US-0180628.
PR   24-FEB-2000; 2000US-0184664.
PR   02-MAR-2000; 2000US-0186350.
PR   16-MAR-2000; 2000US-0189874.
PR   17-MAR-2000; 2000US-0190076.
PR   18-APR-2000; 2000US-0198123.
PR   19-MAY-2000; 2000US-0205515.
PR   07-JUN-2000; 2000US-0209467.
PR   28-JUN-2000; 2000US-0214886.
PR   30-JUN-2000; 2000US-0215145.
PR   07-JUL-2000; 2000US-0216647.
PR   07-JUL-2000; 2000US-0216880.
PR   11-JUL-2000; 2000US-0217487.
PR   11-JUL-2000; 2000US-0217496.
PR   14-JUL-2000; 2000US-0218290.
PR   26-JUL-2000; 2000US-0220963.
PR   26-JUL-2000; 2000US-0220964.
PR   14-AUG-2000; 2000US-0224518.
PR   14-AUG-2000; 2000US-0224519.
PR   14-AUG-2000; 2000US-0225213.
PR   14-AUG-2000; 2000US-0225214.
PR   14-AUG-2000; 2000US-0225266.
PR   14-AUG-2000; 2000US-0225267.
PR   14-AUG-2000; 2000US-0225268.
PR   14-AUG-2000; 2000US-0225270.
PR   14-AUG-2000; 2000US-0225447.
PR   14-AUG-2000; 2000US-0225757.
PR   14-AUG-2000; 2000US-0225758.
PR   14-AUG-2000; 2000US-0225759.
PR   18-AUG-2000; 2000US-0226279.
PR   22-AUG-2000; 2000US-0226681.
PR   22-AUG-2000; 2000US-0226868.
PR   22-AUG-2000; 2000US-0227182.
PR   23-AUG-2000; 2000US-0227009.
PR   30-AUG-2000; 2000US-0228924.
PR   01-SEP-2000; 2000US-0229287.
PR   01-SEP-2000; 2000US-0229343.
PR   01-SEP-2000; 2000US-0229344.
PR   01-SEP-2000; 2000US-0229345.
```

PR 05-SEP-2000; 2000US-0224509
PR 05-SEP-2000; 2000US-0224513
PR 06-SEP-2000; 2000US-0230437
PR 06-SEP-2000; 2000US-0230438
PR 08-SEP-2000; 2000US-0231242
PR 08-SEP-2000; 2000US-0231243
PR 08-SEP-2000; 2000US-0231244
PR 08-SEP-2000; 2000US-0231413
PR 08-SEP-2000; 2000US-0231414
PR 08-SEP-2000; 2000US-0231480
PR 08-SEP-2000; 2000US-0232091
PR 12-SEP-2000; 2000US-0231968
PR 14-SEP-2000; 2000US-0232397
PR 14-SEP-2000; 2000US-0232398
PR 14-SEP-2000; 2000US-0232399
PR 14-SEP-2000; 2000US-0232400
PR 14-SEP-2000; 2000US-0232401
PR 14-SEP-2000; 2000US-0233063
PR 14-SEP-2000; 2000US-0233064
PR 14-SEP-2000; 2000US-0233065
PR 21-SEP-2000; 2000US-0234273
PR 21-SEP-2000; 2000US-0234274
PR 25-SEP-2000; 2000US-0234937
PR 25-SEP-2000; 2000US-0234938.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249330.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250341
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251498
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868
PR 08-DEC-2000; 2000US-0251869
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0256738.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
DR WPI; 2001-485426/52.
XX
PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis -
XX
PS Disclosure; SEQ ID NO 25345; 307pp + Sequence Listing; English.
XX
CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I) CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic CC activity, and can be used in gene therapy and vaccine production. (I) CC proteins and polynucleotides may be used in the prevention, diagnosis and CC treatment of diseases associated with inappropriate (I) expression. For CC example, they may be used to treat disorders associated with decreased CC expression by rectifying mutations or deletions in a patient's genome CC that affect the activity of (I) by expressing inactive proteins or to CC supplement the patients own production of (I). Additionally, (I) CC polynucleotides may be used to produce the secreted (I), by inserting CC the nucleic acids into a host cell and culturing the cell to express the CC protein. (I) proteins and polynucleotides may be used to prevent, CC diagnose and treat immune/haematopoietic related diseases, especially CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703 CC to AAK87694 represent human immune/haematopoietic antigen genomic CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169 CC represent sequences used in the exemplification of the present invention.
XX
SQ Sequence 11445 BP; 2807 A; 3157 C; 2738 G; 2743 T; 0 other;

Alignment Scores.

Pred. No..	0.801	Length.	11445
Score.	55.00	Matches:	11
Percent Similarity.	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match.	100.00%	Indels:	0
DB.	22	Gaps:	0

US-09-856-070-23 (1-11) x AAK70537 (1-11445)

Qy 1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
||||||||||||||||||||||||||||||||||||
Db 5538 GAATTGATGCTTCGGCTGCAGGATTATGAGGAG 5548

RESULT 11
AAS93352
ID AAS93352 standard; cDNA; 1447 BP.

```
XX
AC   AAS93352;
XX
DT   14-FEB-2002  (first entry)
XX
DE   DNA encoding novel human diagnostic protein #29156.
XX
KW   Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW   food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS   Homo sapiens.
XX
PN   WO200175067-A2.
XX
PD   11-OCT-2001.
XX
PF   30-MAR-2001; 2001WO-US08631.
XX
PR   31-MAR-2000; 2000US-0540217
PR   23-AUG-2000; 2000US-0644167.
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Drmanac RT,  Liu C,  Tang YT;
XX
DR   WPI; 2001-639362/73
DR   P-PSDB; ABG29169
XX
PT   New isolated polynucleotide and encoded polypeptides, useful in
PT   diagnostics, forensics, gene mapping, identification of mutations
PT   responsible for genetic disorders or other traits and to assess
PT   biodiversity -
XX
PS   Claim 1; SEQ ID No 29156; 103pp; English.
XX
CC   The invention relates to isolated polynucleotide (I) and
CC   polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC   polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC   and gene mapping, and in recombinant production of (II). The
CC   polynucleotides are also used in diagnostics as expressed sequence tags
CC   for identifying expressed genes. (I) is useful in gene therapy techniques
CC   to restore normal activity of (II) or to treat disease states involving
CC   (II). (II) is useful for generating antibodies against it, detecting or
CC   quantitating a polypeptide in tissue, as molecular weight markers and as
CC   a food supplement. (II) and its binding partners are useful in medical
CC   imaging of sites expressing (II). (I) and (II) are useful for treating
CC   disorders involving aberrant protein expression or biological activity
CC   The polypeptide and polynucleotide sequences have applications in
CC   diagnostics, forensics, gene mapping, identification of mutations
CC   responsible for genetic disorders or other traits to assess biodiversity
CC   and to produce other types of data and products dependent on DNA and
CC   amino acid sequences. AAS64197-AAS94564 represent novel human
CC   diagnostic coding sequences of the invention.
CC   Note: The sequence data for this patent did not appear in the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences
XX
SQ   Sequence 1447 BP; 347 A; 356 C; 383 G; 361 T; 0 other;

Alignment Scores:
Pred. No.:                95.9          Length:         1447
Score:                    40.00         Matches:        8
Percent Similarity:       90.00%        Conservative:   1
Best Local Similarity:    80.00%        Mismatches:     1
Query Match:              72.73%        Indels:         0
DB:                       23            Gaps:           0

US-09-856-070-23 (1-11) x AAS93352 (1-1447)

Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGlu 10
           ||||||||||||||||   :::||||||||||
Db     982 GACTTGATGCTACGGCAGAAGGATTACCAG 1011


RESULT 12
ABA71189/c
ID   ABA71189 standard; DNA; 205 BP.
XX
AC   ABA71189;
XX
DT   01-FEB-2002  (first entry)
XX
DE   Human foetal liver single exon nucleic acid probe #19494.
XX
KW   Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
XX
OS   Homo sapiens.
XX
PN   WO200157277-A2.
XX
PD   09-AUG-2001.
XX
PF   30 JAN 2001; 2001WO-US00669.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-483447/52.
XX
PT   Human genome-derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human fetal liver -
XX
PS   Claim 4; SEQ ID NO 19494; 639pp + sequence listing; English.
XX
CC   The invention relates to a single exon nucleic acid probe for
CC   measuring human gene expression in a sample derived from human foetal
CC   liver. The single exon nucleic acid probes may be used for predicting,
CC   measuring and displaying gene expression in samples derived from human
CC   fetal liver. The present sequence is a single exon nucleic acid
CC   probe of the invention.
CC   Note: The sequence data for this patent did not form part of the
CC   printed specification, but was obtained in electronic format directly
CC   from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence 205 BP; 71 A; 55 C; 36 G; 63 T; 0 other;

Alignment Scores:
Pred. No.:                16.5          Length:         205
Score:                    39.00         Matches:        8
Percent Similarity:       90.91%        Conservative:   2
Best Local Similarity:    72.73%        Mismatches:     1
Query Match:              70.91%        Indels:         0
DB:                       22            Gaps:           0

US-09-856-070-23 (1-11) x ABA71189 (1-205)

Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
           ||||||...||||||||||||:::|||   |||
Db     151 GAGCTTATTCTTCGCCTTCAAGAATATTTGAA 119

RESULT 13
AAK19487/c
ID   AAK19487 standard; DNA; 205 BP.
XX
AC   AAK19487;
XX
DT   05-NOV-2001  (first entry)
XX
```

```
DE   Human brain expressed single exon probe SEQ ID NO: 19478.
XX
KW   Human; brain expressed exon; gene expression analysis; probe;
KW   microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
KW   epilepsy; cancer; ss.
XX
OS   Homo sapiens
XX
PN   WO200157275-A2.
XX
PD   09-AUG-2001
XX
PF   30-JAN-2001; 2001WO-US00667.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-488446/52.
XX
PT   Single exon nucleic acid probes for analysing gene expression in human
PT   brains -
XX
PS   Example 4; SEQ ID NO: 19478; 650pp + Sequence Listing; English.
XX
CC   The present invention provides a number of single exon nucleic acid
CC   probes which are derived from genomic sequences expressed in the human
CC   brain. They can be used to measure gene expression in brain cell samples,
CC   which may enable the diagnosis and improved treatment of nervous system
CC   diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
CC   epilepsy and cancers. The present sequence is one of the probes of the
CC   invention.
XX
SQ   Sequence 205 BP; 71 A; 35 C; 36 G; 63 T; 0 other;

Alignment Scores:
Pred. No.:                16.5          Length:          205
Score:                    39.00         Matches:         8
Percent Similarity:       90.91%        Conservative:    2
Best Local Similarity:    72.73%        Mismatches:      1
Query Match:              70.91%        Indels:          0
DB:                       22            Gaps:            0

US-09-856-070-23 (1-11) x AAK19487 (1-205)

Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
           ||||||:::|||||||||||:::|||   |||
Db     151 GAGCTTATTCTTCGCCTTCAAGAATATTTTGAA 119

RESULT 14
AAK45478/c
ID   AAK45478 standard; DNA; 205 BP.
XX
AC   AAK45478;
XX
DT   06-NOV-2001  (first entry)
XX
DE   Human bone marrow expressed single exon probe SEQ ID NO: 20035.
XX
KW   Human; bone marrow expressed exon; gene expression analysis; probe;
KW   microarray; cancer; leukaemia; lymphoma; myeloma; ss.
XX
OS   Homo sapiens.
XX
PN   WO200157276-A2.
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US00668.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-488900/53.
XX
PT   Human genome derived single exon nucleic acid probes useful for
PT   analysing gene expression in human bone marrow -
XX
PS   Example 4; SEQ ID NO: 20035; 658pp + Sequence Listing; English.
XX
CC   The present invention provides a number of single exon nucleic acid
CC   probes which are derived from genomic sequences expressed in the human
CC   bone marrow. They can be used to measure gene expression in bone marrow
CC   samples, which may enable the improved diagnosis and treatment of cancers
CC   such as lymphoma, leukaemia and myeloma. The present sequence is one of
CC   the probes of the invention.
XX
SQ   Sequence 205 BP; 71 A; 35 C; 36 G; 63 T; 0 other;

Alignment Scores:
Pred. No.:                16.5          Length:          205
Score:                    39.00         Matches:         8
Percent Similarity:       90.91%        Conservative:    2
Best Local Similarity:    72.73%        Mismatches:      1
Query Match:              70.91%        Indels:          0
DB:                       22            Gaps:            0

US-09-856-070-23 (1-11) x AAK45478 (1-205)

Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
           ||||||:::|||||||||||:::|||   |||
Db     151 GAGCTTATTCTTCGCCTTCAAGAATATTTTGAA 119

RESULT 15
AAI51423/c
ID   AAI51423 standard; DNA; 205 BP.
XX
AC   AAI51423;
XX
DT   17-OCT-2001  (first entry)
XX
DE   Probe #20109 used to measure gene expression in human placenta sample.
XX
KW   Probe; microarray; human; placenta; antenatal diagnosis;
KW   genetic disorder; ss.
XX
OS   Homo sapiens.
XX
PN   WO200157272 A2.
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US00663.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
```

PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000CB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488897/53.
XX
PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human placenta -
XX
PS Claim 25; SEQ ID No 20109; 654pp; English.
XX
CC The present invention relates to single exon nucleic acid probes (SENP).
CC The present sequence is one such probe. The probes are useful for
CC producing a microarray for predicting, measuring and displaying gene
CC expression in samples derived from human placenta. The probes are useful
CC for antenatal diagnosis of human genetic disorders.
XX
SQ Sequence 205 BP; 71 A; 35 C; 36 G; 63 T; 0 other;

Alignment Scores:

Pred. No.:	16.5	Length:	205
Score:	89.00	Matches:	8
Percent Similarity:	90.91%	Conservative:	2
Best Local Similarity:	72.73%	Mismatches:	1
Query Match:	70.91%	Indels:	0
DB:	22	Gaps:	0

US-09-856-070-23 (1-11) x AA151423 (1-205)

```
Qy       1 GluLeuMetLeuArgLeuGlnAspTyrGluGlu 11
           |||||||:::|||||||||||||:::|||   |||
Db     151 GAGCTTATTCTTCGCCTTCAAGAATATTTTGAA 119
```

Search completed: January 16, 2003, 17:19:51
Job time : 183.211 secs